

PROCESSING METHOD FOR WASTE GAS FROM FUEL CEL

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Inventor: MITSUTA SUSUMU; others: 02
Applicant: KAWASAKI HEAVY IND LTD
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Abstract of JP63241877

PURPOSE: To make a waste gas processing device compact by using heat energy produced in removing CO₂ for heating waste gas, leading fluid medium including CaCO₃ produced by absorbing CO₂ to another fluid bed for regeneration, rising temperature so as to form grains mainly including CaO, and circulating the grains to a fluid bed for CO₂ for reuse.

CONSTITUTION: Waste gas from a fuel cell 1 including CO₂, H₂, H₂O, etc., is led to a fluid bed 3 consisting of grains mainly including CaO for removing CO₂, so that CO₂ is removed, and heat energy produced by removal of CO₂ is used for heating waste gas. The heated waste gas is supplied to a reformer 5. Fluid medium including CaCO₃ produced by absorption of CO₂ is led to a fluid bed for regeneration 11. Temperature of this fluid medium is risen for removing CO₂ to form it into grains mainly including CaO. The grains mainly including CaO are circulated to the fluid bed 3 to be reused, thereby a waste gas processing device is made compact.

